

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addease COMMISSIONER FOR PATENTS PO Box 1430 Alexandra, Virginia 22313-1450 www.webjo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/591,393	11/10/2006	Patrick Lenoir	016782-0365	9571	
22428 FOLEY AND	7590 01/15/200 LARDNER LLP	9	EXAMINER		
SUITE 500			GRAVINI, STEPHEN MICHAEL		
3000 K STRE			ART UNIT PAPER NUMBER		
	,		3743		
			MAIL DATE	DELIVERY MODE	
			01/15/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

10/591,393 Office Action Summary F.

Application No.

LENOIR, PATRICK A -- 6 | 1 | -- 1 | 6

Applicant(s)

		CXAIIIIIei	ALLOINE				
		Stephen M. Gravini	3743				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period fo	or Reply						
WHIC - Exte after - If NC - Failu Anv	ORTENED STATUTORY PERIOD FOR REPLO- MEVER IS LONGER, FROM THE MAILING D. Character of time may be available under the provisions of 37 CFR 1: 50K (6) MON'H of from the maining date of the communication. The communication of the communica	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,			
Status							
1) 又	Responsive to communication(s) filed on 10 No	ovember 2008.					
		action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dienoeit	ion of Claims						
· · _							
,							
	Claim(s) is/are allowed.						
	☐ Claim(s) 1-20 is/are rejected.						
	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or election requirement.						
-							
Applicat	ion Papers						
9)[The specification is objected to by the Examine	r.					
10)🛛	(0) The drawing(s) filed on 10 November 2006 is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
_	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ГО-152.			
Priority (under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	⊢(d) or (f).				
a)	☑ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority documents have been received.						
	Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage						
		•	ed in this National	Stage			
	application from the International Bureau						
- ;	See the attached detailed Office action for a list	or the certified copies not receive	a.				
Attachmen	rt(s)						

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTC/SD/08)

Paper No(s)/Mail Date 20081009.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application. 6) Other: __

Art Unit: 3743

DETAILED ACTION

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

Claims 1-8, 11-13, and 15-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Bakalar (US 5,966,835) in view of Seeley et al. (EP 0 539 013). The claims are reasonably and broadly construed, in light of the accompanying specification, to be disclosed by Bakalar, as comprising:

at least two adjacent rows of gas-heated infrared radiant elements 38 stretching out in the transversal direction of the web substantially over the entire width of the web, said infrared drier installation comprises means to recycle, at least partially, the said combustion gases, wherein said infrared drier comprises means to avoid the suction of cold air between two adjacent rows of radiant elements. Bakalar also discloses the claimed means to avoid the suction of cold air between two adjacent rows of radiant elements is a sealing gasket 42, wherein said drier installation comprises devices that form an insulating thermal arc stretching out to the neighborhood of the backside of the radiant elements at column 11 line 58, wherein said means that form an insulating thermal arc have peripheral walls stretching out to the neighborhood of the web, at least along the lateral edges and the upstream transversal edge of the set of radiant elements as shown in figure 3, wherein each radiant element has first detachable connecting devices adapted to cooperate with second detachable complementary connecting devices coupled by at least one fixed pipe supplying gas, combustion air or

Art Unit: 3743

a mixture of gas and air; the first and second detachable connection devices, said detachable connection are for part of a quick connect coupling at column 13 line 65 through column 14 line 11, wherein the first and the second connection devices are designed so as to oppose a preset maximal resistance and to yield, in a reproducible way, to a load force that exceeds this maximal resistance at column 13 line 65 through column 14 line 11, wherein said drier installation has for each row of radiant elements a corresponding gas tube, which has, for each radiant element, a fixed pipe that supplies gas to the said radiant element, and wherein each radiant element has on its backside a back tubing supplying a mixture of air and gas that is adapted to be directly coupled in a detachable and tight way with the corresponding fixed gas pipe, in which the fixed pipe or the back tubing has an air inlet opening that communicates with the air tube to form the mixture of air and gas at column 14 lines 18-31, wherein for each row of radiant elements, a combustion air supply tube placed between the radiant elements and the corresponding gas tube, and wherein for each radiant element, the combustion air tube has opposite openings respectively made in two opposite regions of the wall of the air tube, a first opening that is made in a first region adjacent to the radiant element, and a second opening that is made in a second region adjacent to the gas tube, and wherein through each of the openings passes the corresponding fixed pipe or the corresponding back tubing as shown in figure 2, wherein said drier installation has first collection devices to collect downstream the radiant elements at least a part of the warm combustion gases produced by the said radiant elements, and first blowing devices to blow on the passing web, downstream the first collection devices, a gaseous mixture

Art Unit: 3743

that is warmed up by these warm gases at column 15 lines 45-65, , wherein said drier installation has several ventilators, arranged according to a row stretching out in the transversal direction of the passing web, in which each ventilator is connected to collection hoods and to blowing hoods, respectively covering a part of the width of the passing web as shown in figure 1, wherein each ventilator is situated above the said collection and blowing hoods, adjacent to the corresponding radiant elements, in relation to the said hoods at column 16 lines 28-48, wherein each radiant element comprise a locking device to lock said radiant element in its working position at column 16 lines 15-21, wherein each radiant element comprise means to insulate the warm combustion gases from the backside of the said radiant element at column 11 line 58. Bakalar discloses the claimed invention, except for the claimed installation being configured for an intended use purpose such that it may heat a web without contacting the web with a heated surface. Seeley, another web dryer, discloses that feature on the face of that reference. It would have been obvious to one skilled in the art to combine the teachings of Bakalar, with the non-contact features of Seeley, for the purpose of allowing web drying without causing physical damage to the web by contact

Claims 9-10 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bakalar in view of Seeley. Bakalar in view of Seeley discloses the claimed invention, as rejected above, except for the claimed tight way passage and gas injector location. It would have been an obvious matter of design choice to provide those features to Bakalar in view of Seeley, since the invention as claimed would be performed by the prior art, regardless of the claimed location arrangement.

Art Unit: 3743

Claims 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bakalar in view of Seeley in view of Riepe et al. (US 6,665,950). Bakalar discloses the claimed invention, as rejected above, except for the claimed peripheral jacket and cold air infiltration means. Riepe, another drier installation, discloses those features at column 3 lines 15-60. It would have been an obvious to one skilled in the art to provide those features to Bakalar in view of Seeley for the purpose of maximizing dryer efficiency by providing optimum heat and air flow in an infrared drying application.

Response to Arguments

Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new grounds of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 3743

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Gravini whose telephone number is 571 272 4875. The examiner can normally be reached on normal weekday business hours (east coast time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth B. Rinehart can be reached on 571 272 4881. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Stephen Gravini/ Primary Examiner, Art Unit 3743